

FIG. 2

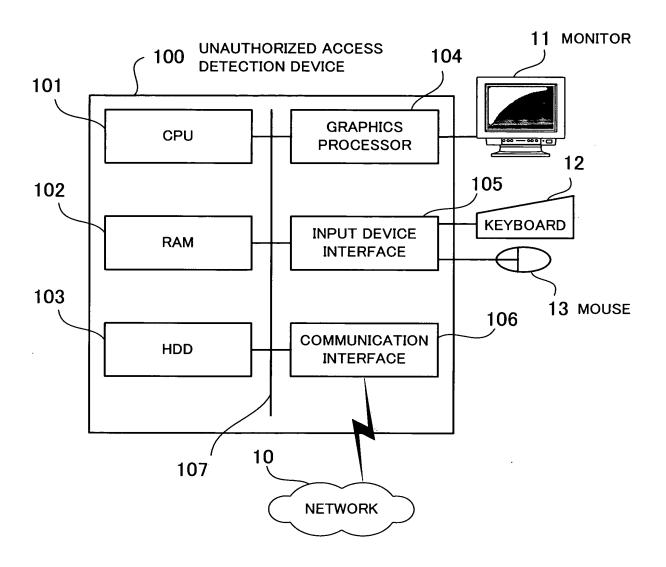


FIG. 3

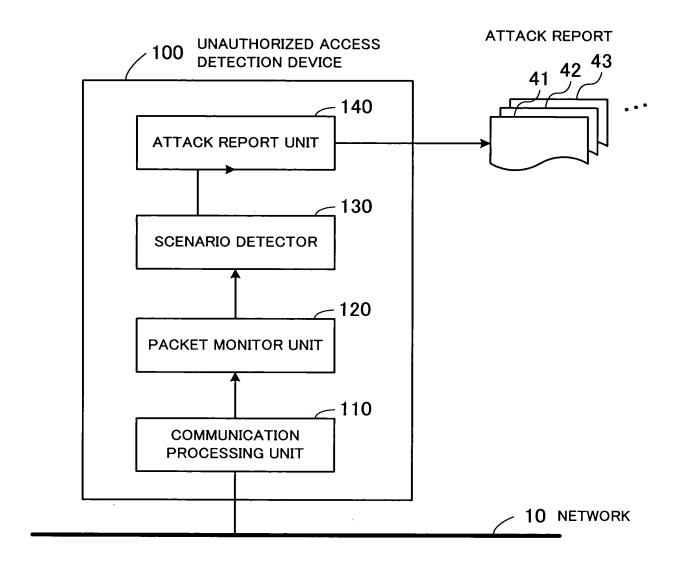
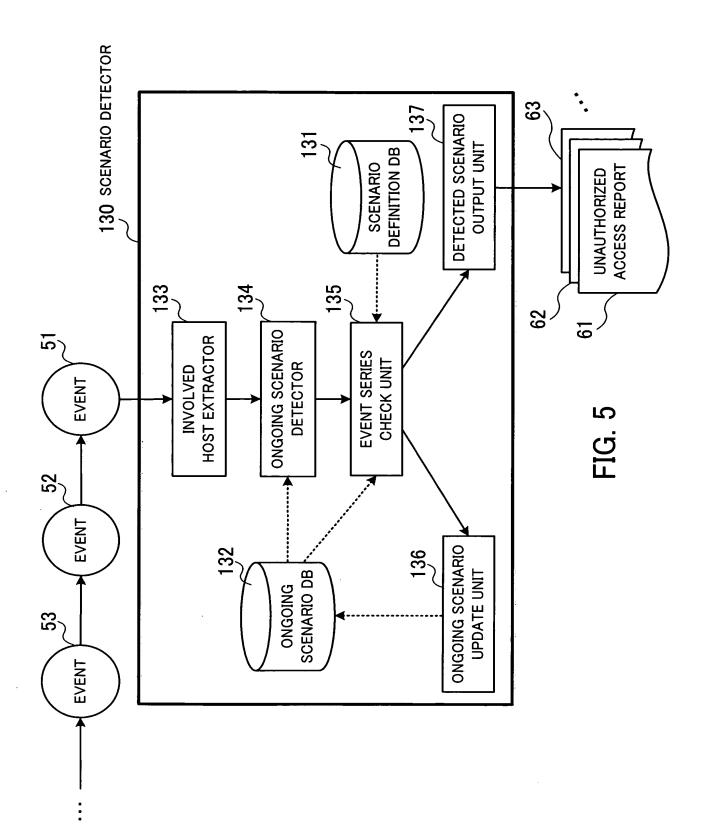


FIG. 4



131 SCENARIO DEFINITION DB

EVENT TRANSITIONS	EVENT a EVENT b EVENT C	EVENT a EVENT d EVENT c	
	EVE	EVE	
THE NAMES OF UNAUTHORIZED ACCESS SCENARIOS	UNAUTHORIZED ACCESS SCENARIO A	UNAUTHORIZED ACCESS SCENARIO B	

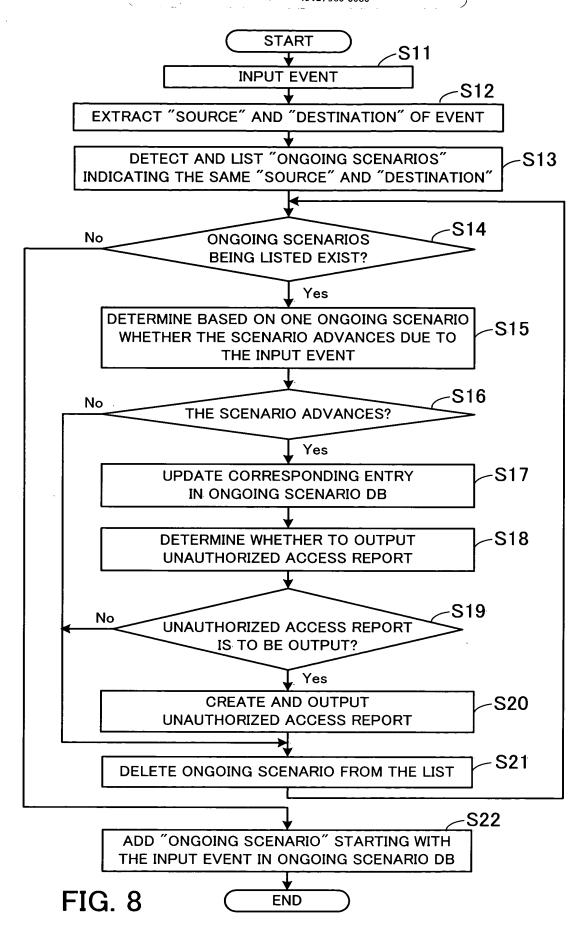
FIG. 6

132 ONGOING SCENARIO DB

PAIRS OF SOURCE IP ADDRESS AND DESTINATION IP ADDRESS	NAME OF UNAUTHORIZED ACCESS SCENARIO	DEGREE OF PROGRESS
192.168.1.5→10.10.100.100	UNAUTHORIZED ACCESS SCENARIO B SECOND STAGE	SECOND STAGE
10.1.1.123→192.168.30.30	UNAUTHORIZED ACCESS SCENARIO D	THIRD STAGE
• • •	• •	

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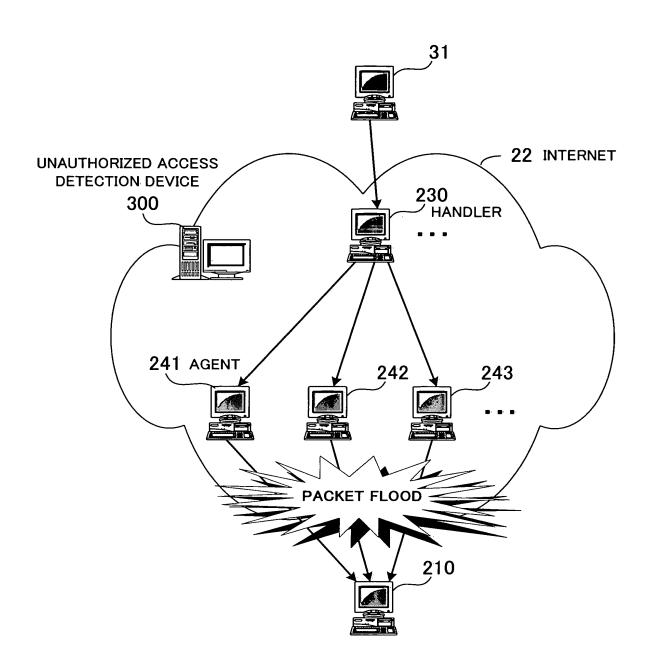
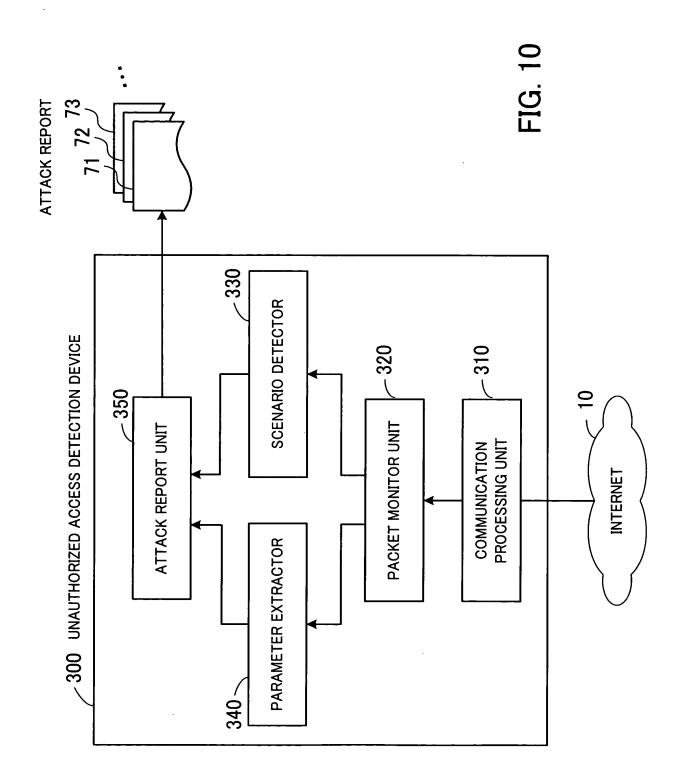
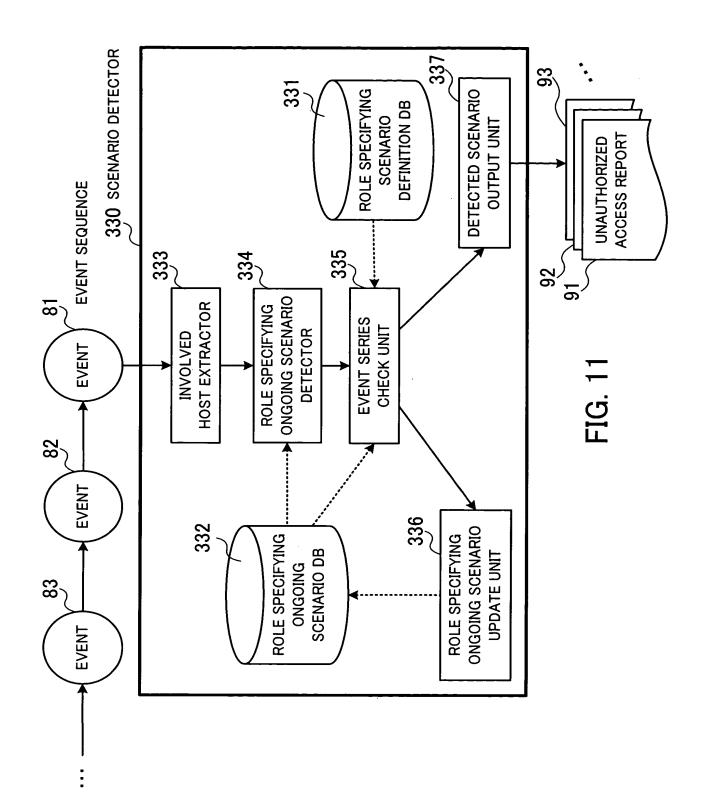


FIG. 9





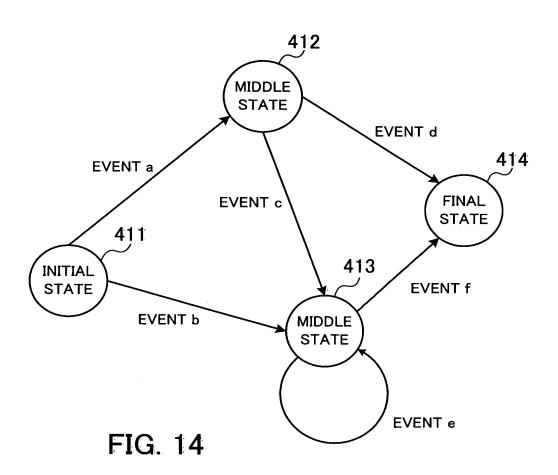
**DESTINATION: TARGET** SOURCE: AGENT EVENT c 331 ROLE SPECIFYING SCENARIO DEFINITION DB SOURCE: AGENT DESTINATION: HANDLER **EVENT TRANSITIONS EVENT b DESTINATION: AGENT** SOURCE: HANDLER **EVENT** a THE NAMES OF UNAUTHORIZED ACCESS UNAUTHORIZED ACCESS SCENARIOS SCENARIO X

FIG. 12

332 ROLE SPECIFYING ONGOING SCENARIO DB

		_		
	ROLE-SPECIFIED IP	IP ADDRESSES	NAME OF UNAUTHORIZED ACCESS SCENARIO	DEGREE OF PROGRESS
<u> </u>	192.168.1.5	AGENT		
	10.10.100.100	HANDLER	UNAUTHORIZED ACCESS SCENARIO B	SECOND STAGE
ı				
L	10.1.1.123	ATTACKER		F 0 0 0 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
	192.168.30.30	TARGET	UNAUTHORIZED ACCESS SCENARIO D	HIRU O AGE
	8-		•	
	•		•	•
	•		•	•
			•	•

FIG. 13



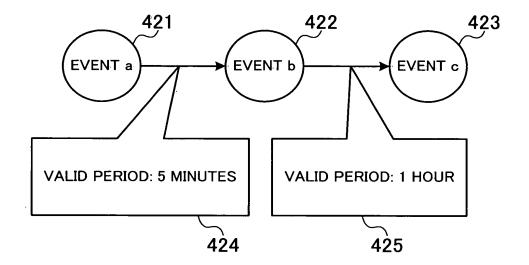
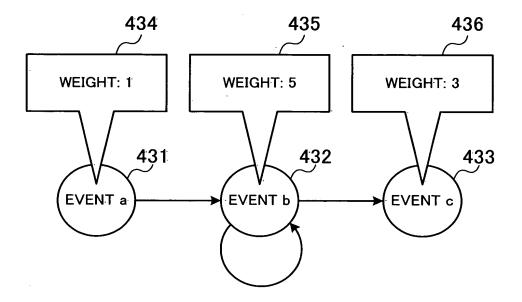


FIG. 15



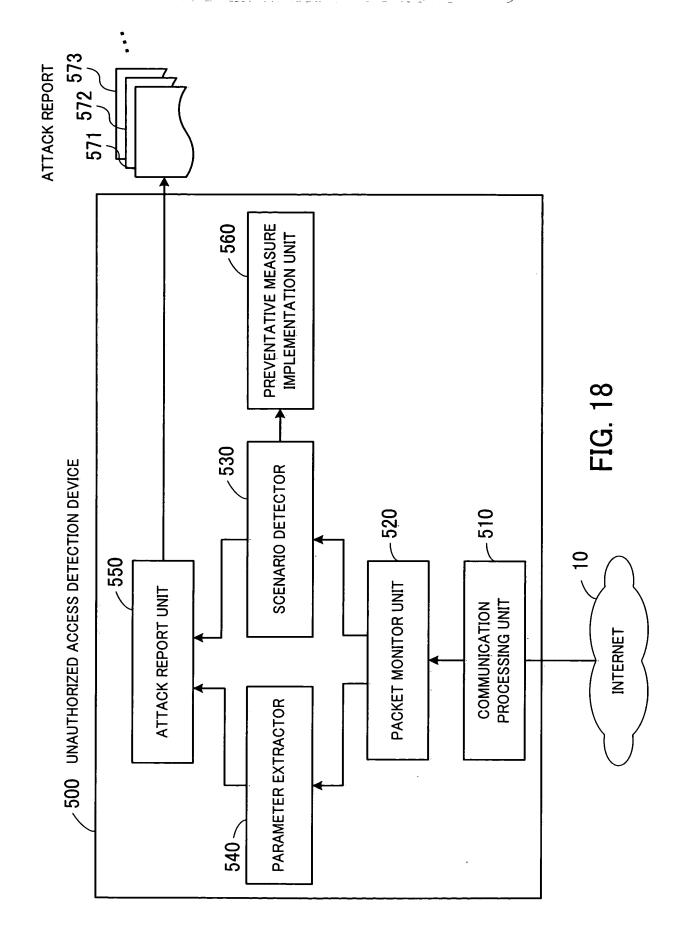
**REPORT OUTPUT THRESHOLD VALUE: 8** 

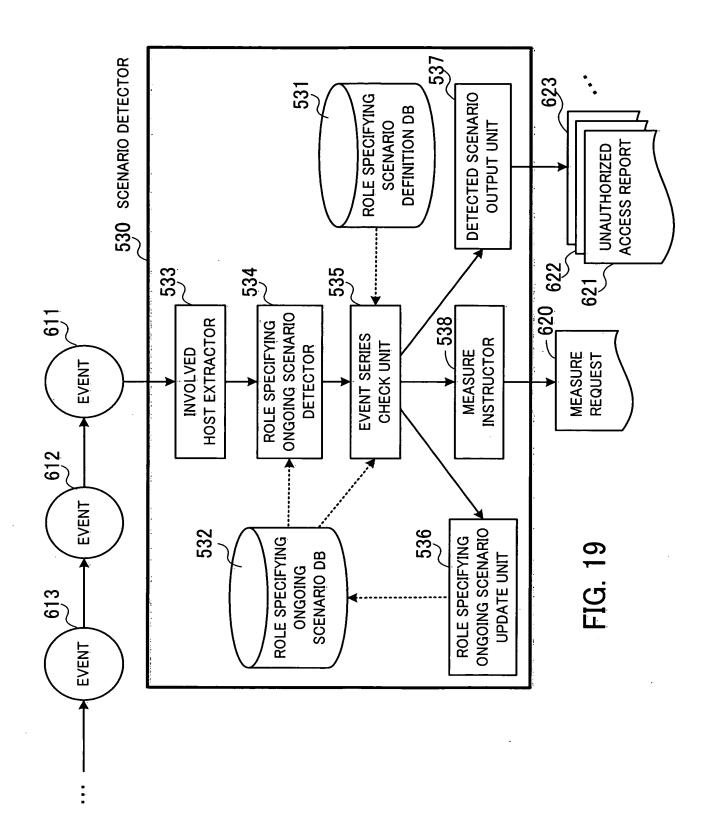
FIG. 16

132a ONGOING SCENARIO DB

/		
PAIRS OF SOURCE IP ADDRESS AND DESTINATION IP ADDRESS	NAME OF UNAUTHORIZED ACCESS SCENARIO	TOTAL WEIGHT
192.168.1.5→10.10.100.100	UNAUTHORIZED ACCESS SCENARIO B	9
10.1.123→192.168.30.30	UNAUTHORIZED ACCESS SCENARIO D	1
•		•
•	•	
•	•	•

FIG. 17

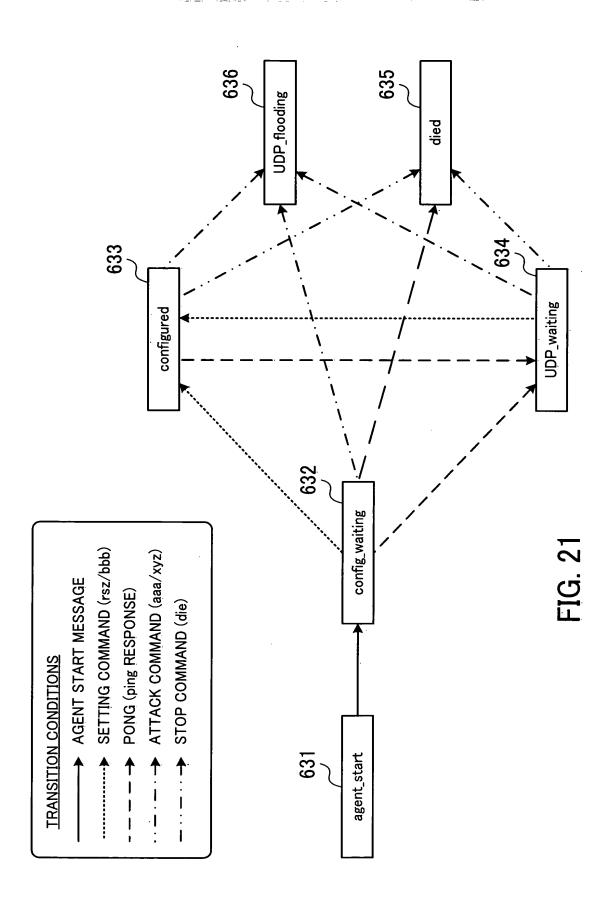




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COMMANDS TO HANDLER	COMMANDS TO AGENT	DESCRIPTION
msize	rsz	SET THE SIZE (BYTE) OF A UDP PACKET TO BE USED FOR FUTURE FLOOD WITH A PARAMETER
mtimer	qqq	SET THE LENGTH (SECONDS) OF FUTURE FLOOD WITH A PARAMETER
mping	bug	CONFIRM WHETHER EACH AGENT IS ALIVE OR NOT
die	dle	STOP ALL AGENTS
sop	aaa	SEND UDP FLOOD TO IP ADDRESS SPECIFIED BY PARAMETER
sopu	xyz	SEND UDP FLOOD TO IP ADDRESS SPECIFIED BY PARAMETER. A PLURALITY OF IP ADDRESS CAN BE SPECIFIED

FIG. 20



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640 PREDICATED IMPACT/MEASURE DEFINITION TABLE

TIME TO IMPACT	POSSIBILITY OF IMPACT	SCALE OF IMPACT	PREVENTATIVE MEASURES
WITHIN 5 MINUTES	70%	LARGE	
WITHIN 1 HOUR	10%	LARGE	INTERRUPT COMMUNICATION FOR ONE HOUR (BECAUSE OF VERY URGENT AND LARGE IMPACT)
WITHIN ONE DAY	10%	MEDIUM	

FIG. 22

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650 PREDICATED IMPACT /MEASURE DEFINITION TABLE

TIME TO IMPACT	POSSIBILITY OF IMPACT	SCALE OF IMPACT	PREVENTATIVE MEASURES
WITHIN 1 HOUR	10%	МЕDIUМ	NOTIFY THE ADMINISTRATOR OF A HOST (ADMINISTRATIOR HOST) THAT PROBABLY
WITHIN 1 DAY	40%	LARGE	LAUNCHES AN ATTACK, MONITOR COMMUNICATION FOR NEXT 3 DAYS, AND INTERRUPT, IF NECESSARY,
WITHIN 3 DAYS	30%	LARGE	THE COMMUNICATION (BECAUSE IMPACT DOES NOT OCCUR SOON)

FIG. 23